

52. (New) The isolated polypeptide of claim ~~51~~<sup>6</sup>, which consists essentially of a fusion between the CDR3 region and a CDR2 region of said heavy chain antibody.

53. (New) The isolated polypeptide of claim ~~48~~<sup>8</sup>, which comprises at most 100 amino acids.

54. (New) The isolated polypeptide of claim ~~53~~<sup>8</sup>, which comprises from 3 to 60 amino acids.

55. (New) The isolated polypeptide of claim ~~53~~<sup>8</sup>, which comprises from 3 to 30 amino acids.

56. (New) The isolated polypeptide of claim 46, wherein said antibody fragment is a fragment of a penetrating antibody.

57. (New) The isolated polypeptide of claim 56, wherein said penetrating antibody is a polyreactive antibody.

58. (New) The isolated polypeptide of claim 56, wherein said penetrating antibody is an anti-DNA antibody.

59. (New) The isolated polypeptide of claim 56, which comprises a sequence selected from the group consisting of SEQ ID NO: 1, amino acids 2-17 of SEQ ID NO:1, amino acids 3-17 of SEQ ID NO:1, amino acids 4-17 of SEQ ID NO:1, SEQ ID NO: 2, amino acids 2-17 of SEQ ID NO:2, amino acids 3-17 of SEQ ID NO:2, amino acids 4-17 of SEQ ID NO:2, SEQ ID NO: 3, amino acids 2-17 of SEQ ID NO:3, amino acids 3-17 of SEQ ID NO:3, amino acids 4-17 of SEQ ID NO:3, SEQ ID NO: 8, and a functional homologue thereof.

60. (New) The isolated polypeptide of claim 45, which further comprises a basic amino acid region.

1515  
61. (New) The isolated polypeptide of claim 60, wherein said basic amino acid is lysine.

62. (New) The isolated polypeptide of claim 45, wherein the amino acid sequence is obtained by screening a peptide library for a cell penetration activity.

Sub E10  
63. (New) The isolated polypeptide claim 45, wherein said polypeptide reacts *in vitro* with one or more macromolecules selected the group consisting of anionic macromolecules, double-stranded RNA, single-stranded RNA, DNA, cationic macromolecules and histones.

1618  
64. (New) The isolated polypeptide of claim 45, which reacts *in vitro* with heparin and heparin sulphate.

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65. (New) An isolated polypeptide, comprising a polylysine region and a region derived from a penetrating polyreactive antibody, wherein the isolated polypeptide penetrates into a cell.

Sub E11  
66. (New) The isolated polypeptide claim 64, wherein said polypeptide reacts *in vitro* with one or more macromolecules selected the group consisting of anionic macromolecules, double-stranded RNA, single-stranded RNA, DNA, cationic macromolecules and histones.

67. (New) The isolated polypeptide of claim 45, which reacts *in vitro* with heparin and heparin sulphate.